

St. Regis Paper Company Superfund Site

Cass Lake, Minnesota

EPA Activities Update: May 7, 2007



EPA Site Activities Update

Tim Drexler

312-353-4367

drexler.timothy@epa.gov

Sonia Vega

651-296-7361

vega.sonia@epa.gov

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Agenda

- Site History
- Soil Removal Update
- Remedial Action-House Dust Update
- Risk Assessment Update
- Groundwater Remedy Update
- Question and Answer

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Site History

- 1958: Wood treating operations begin
- 1984: Site placed on EPA's Superfund Priority List
- 1985: Site operations end
- 1986: Site clean up under MPCA begins
- 95 and 00: 5-Yr Reviews: testing, risk assessment
- 01 and 03: Soil sampling confirms need for soil removal
- 2004 Soil removal actions begin
- 2004 EPA Orders IP to perform risk assessment
- 2005 5-Yr Review: soil not protective, gw questions
- 2005 Interim Record of Decision on House Dust

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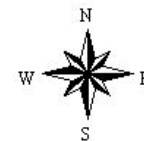
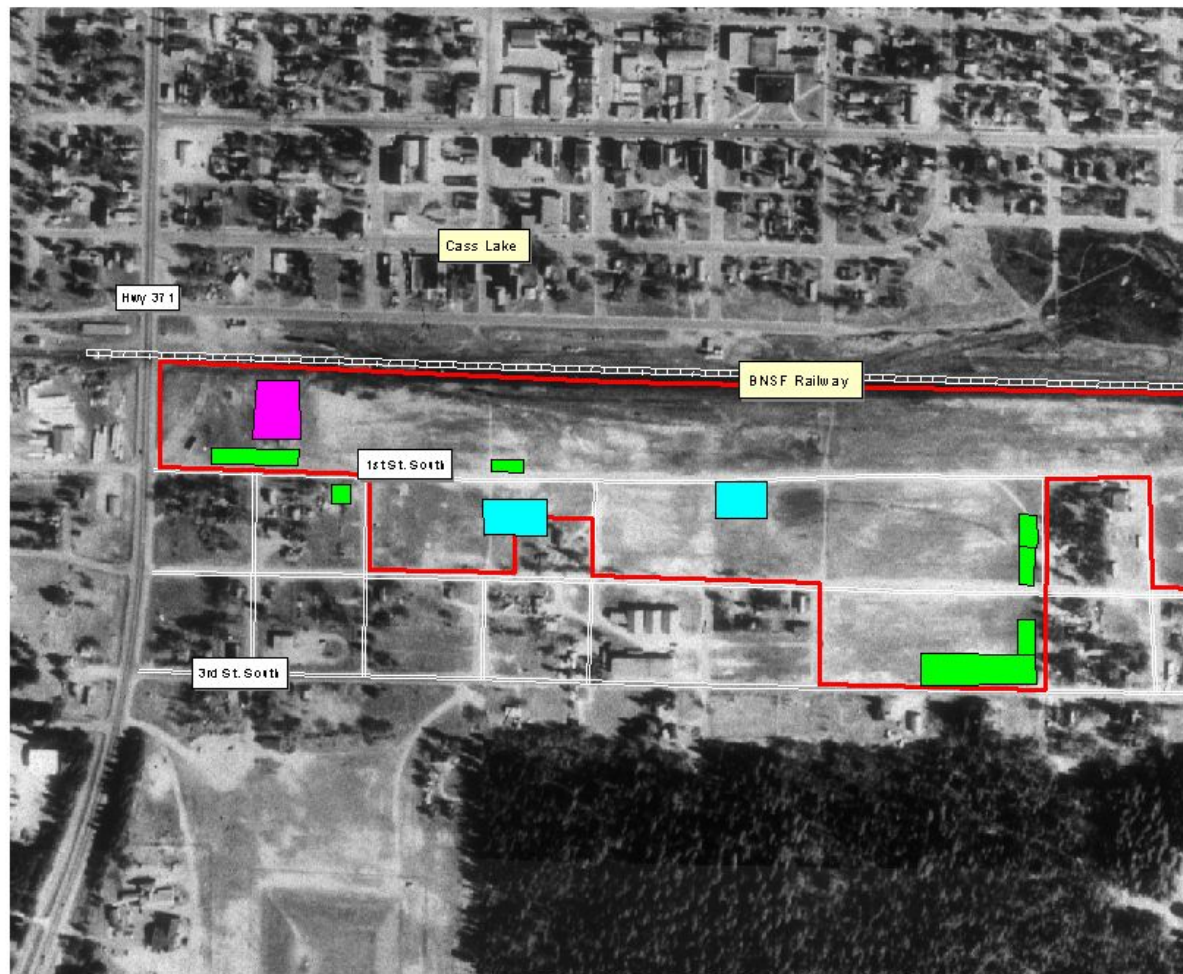
Soil Removal Complete

- **Order to IP for removal on City-owned property completed**
 - 3,294 tons contaminated soil removed.
- **BNSF Railway property removal completed:**
 - 680 tons contaminated soil removed
 - Backfilled excavated area
 - Applied straw mulch
 - Area secured with fencing

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0.2 0 0.2 Miles

- BNSF Removal
- City Property Removal
- Commercial Prop. Removal
- Former Property

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Removal Activities

- Please contact Sonia Vega for additional removal details:
 - vega.sonia @epa.gov 651-296-7361

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Interim Record of Decision

House dust sampling

- Collection area: residents near St. Regis Site
- Number of residents chosen: 10 homes out of about 40
- Selection basis: Representative range of dioxin soil values in yards from 11 ppt. to 480 ppt.

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Interim Record of Decision

Sampling Results

- Close relationship between soil and dust for dioxin
- Assuming Residence time of 70 years:
 - Six homes over screening levels
 - 5 due to dioxin
 - 4 due to arsenic
 - 3 with both

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Residence Results

- Below Level
- Above Level
- Untested Residents
- St. Regis Site

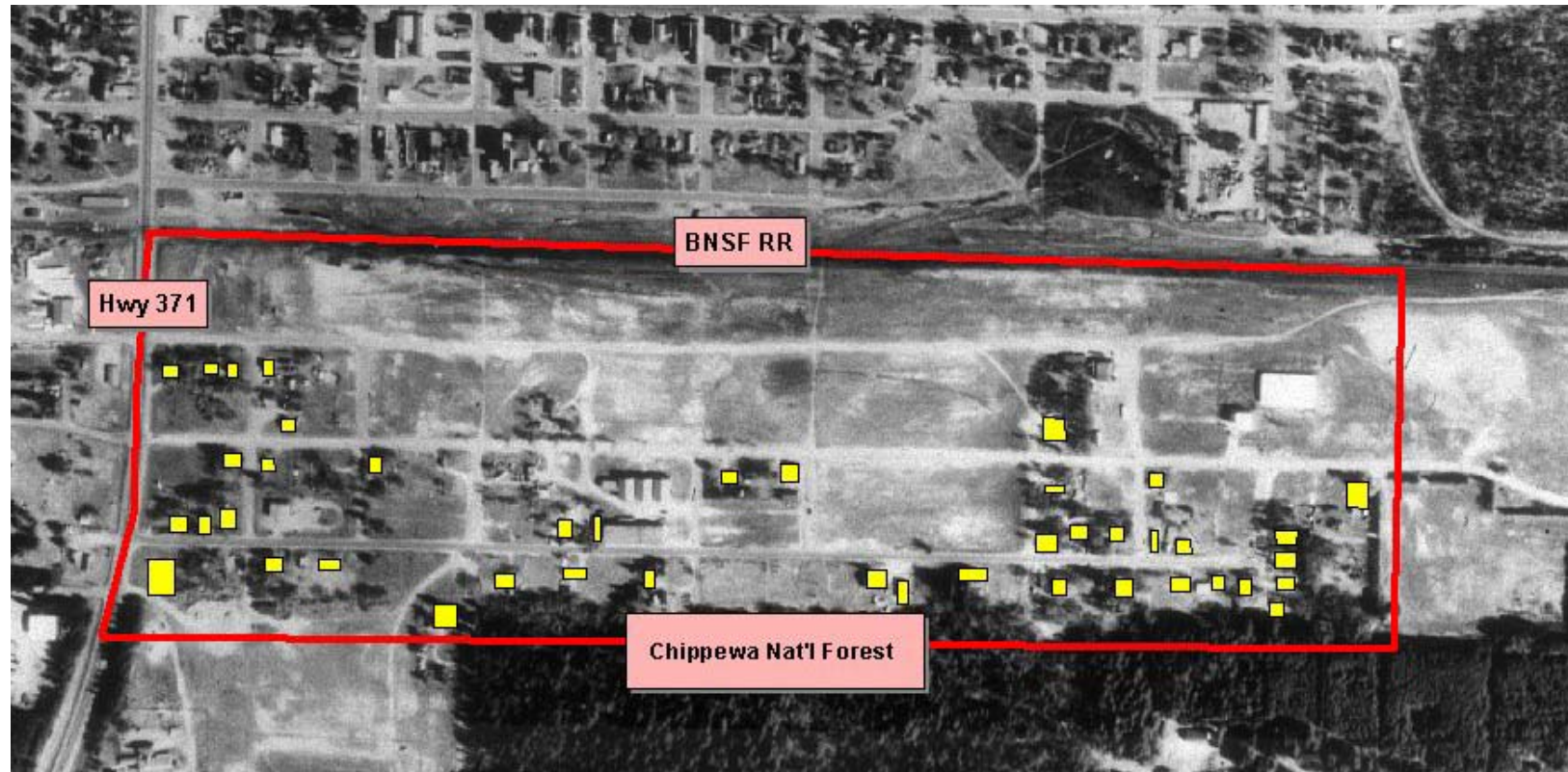
Screening Levels:
(Dioxin: 2 ng/m²,
Arsenic: 0.4 mg/m²)

0.3 0 0.3 Miles

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Response Area: Operable Unit 7

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Interim Record of Decision

Initial Cleaning Details

- Remove/replace carpet from homes near site
- Professionally clean all ducts
- HEPA vacuum and wet wipe houses
- Steam clean soft furniture
- Removal/initial cleaning by Hazardous Material Workers
- Provide housing during cleaning

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Interim Record of Decision

Supplemental Housecleaning

- Local contractor chosen
- House cleaning for dust 2x/month, May 1-Oct 31
 - Quarterly, Nov 1 – April 30
 - HEPA vacuum carpet, floor, furniture, draperies, dry wipe
- Launder rugs/wet wipe quarterly
- Carpet steam clean every 6 months
- Continue until permanent remedy selected for Site

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Interim Record of Decision

Housecleaning Notification

- Order requires:
 - Schedule cleanings with resident by phone or in person
 - If resident gives 24-hour notice of cancellation:
 - o Allow one reschedule for bi-monthly cleanings
 - o Allow two reschedules for quarterly/semi-annual

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Interim Record of Decision

Yard Cover Details

- Cover yards with minimum 3” clean soil
 - Local soil, tested and approved by EPA
- Seed yards
- MN #1 Lawn seed/mulch mixture, locally contracted
- Provide care to ensure growth until Sept 30, 2006
- IP voluntarily provided Class 5 aggregate to driveways

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Dust Suppression

- Order requires dust suppression of unpaved roads
- IP chose magnesium chloride
 - Recommended by Cass County Hwy Dept.
 - Prior to application, road prepared
 - To date, two applications made
 - Next application planned for mid-May 2007

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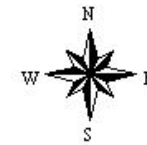
Five-Year Review Follow-Up

- Review completed September 29, 2005
- Groundwater System Improvement Needed:
 - Extraction pumping rates
 - Additional monitoring wells
 - Monitor for additional contaminants/lower detection level
 - Improve discharge monitoring criteria

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- Monitoring Wells
- Extraction Wells
- Site Outlines

2000 0 2000 Feet

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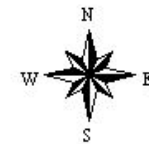
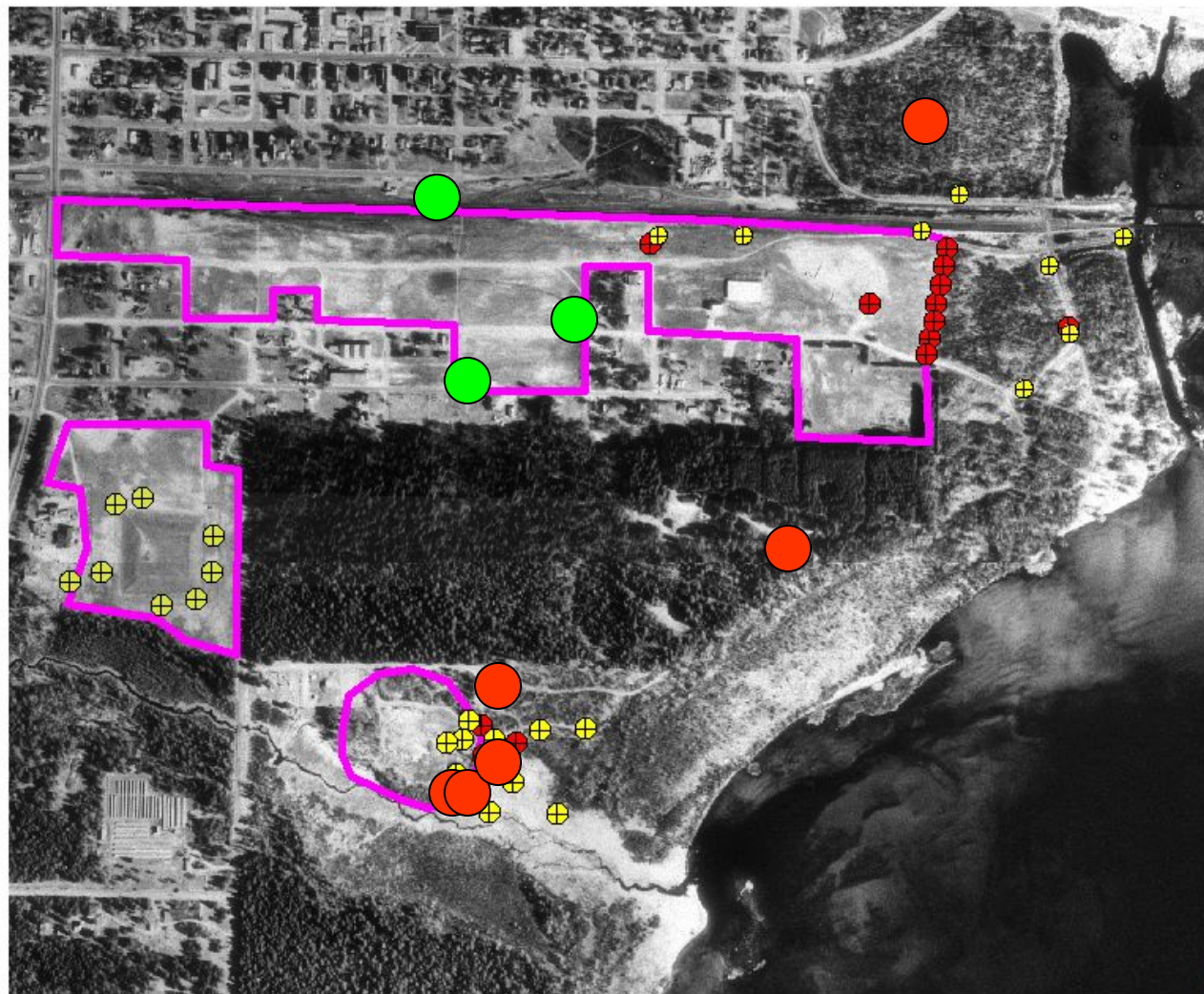
Monitoring Well Improvements: 2006

- 6 New monitoring wells
- 6 Replacement wells
- 3 Test soil borings
- New information will be used to better define contaminant plume boundaries

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Well Network

-  New Monitoring Well
-  New Boring
-  Monitoring Wells
-  Extraction Wells
-  Site Outlines

2000 0 2000 Feet

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Additional Groundwater Investigations

- Sitewide pumping test, Dec 2006:
 - 10 days, monitoring over 70 wells
- Hydraulic Capture Zone Analysis: efficiency
- Improved monitoring data: better chemistry info
- NAPL investigation: planned for delineation
- LLB Hatchery well testing: risk?
- Groundwater computer modeling: best picture

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Human Health and Ecological Risk Assessment Update

- Risk Assessment required to determine need for additional work
- Draft received from IP Nov 2005
- Finalization delayed due to:
 - Questions from IP on LLBO data validity
 - Questions from LLBO on IP data validity
- Final data evaluation nearly complete
- Plan to finalize assessment during Summer 2007

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Future Site Actions: If Additional Work Is Needed

- Finalize risk assessment: Summer 2007
- Complete groundwater system update: Winter 2007
- Modify 2005 Five-Year Review
- Complete Feasibility Study of work options:
Winter 2008
- Proposed Plan to Partners/Community: Spring 2009
- Complete Record of Decision: Winter 2009
- Begin Work: Winter 2010

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**Future Site Actions:
If Additional Work Is Not Needed**

- Finalize risk assessment: Summer 2007
- Complete groundwater update: Winter 2007
- Modify 2005 Five-Year Review
- Proposed Plan to Community: Winter 2007
- Complete Record of Decision: Spring 2008